



Alberta Education K-3 Mathematics Program of Studies Overview

Adapted from My Child's Learning: A Parent Resource



success



Kindergarten

Learning numbers and solving problems with patterns. Your child will represent and describe quantities of things up to 10. They will understand and create repeating patterns and compare objects based on their attributes. They will solve problems involving numbers, patterns and objects, and connect numbers to their everyday life.

Grade 2

Using mathematics to solve problems. Your child will count and describe quantities to 100 in a variety of ways. They will understand and apply strategies for addition facts up to and including $9 + 9$ and related subtraction facts, recall addition facts up to and including $5 + 5$ and related subtraction facts, and add and subtract numbers to 100. Your child will solve problems using numbers, patterns, measurement and data collection, and use graphs and charts to communicate information.

Grade 1

Building the basics through addition and subtraction facts. Your child will count to 100 in different ways, and describe quantities to 20. They will understand and apply strategies for addition facts up to and including $9 + 9$ and related subtraction facts, and recall addition facts to a sum of 5 and related subtraction facts. They will connect numbers to their everyday life, and find geometric shapes in their surroundings. Your child will solve problems involving numbers, patterns and measurement.

Grade 3

Introduction to multiplication and division. Your child will learn about numbers to 1,000, using place value. They will understand, apply and recall addition facts up to and including $9 + 9$ and related subtraction facts, and add and subtract 2- and 3-digit numbers. Your child will understand and recall multiplication to 5×5 and related division facts. They will solve problems involving number, patterns, measurement and data, and use symbols to solve one-step addition and subtraction equations.



Alberta Education K-3 Mathematics Program of Studies Detailed Overview

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Kindergarten

Count to 10 forwards and backwards. **Show, describe and compare quantities of things up to 10.** Sort objects based on a single attribute. **Recognize groups of 1–5 objects arranged in a familiar way.** Play, read and use storytelling to explore and talk about how to solve problems. **Connect numbers to everyday life.** Recognize and create patterns, using objects, sounds and actions.



Grade 2

Count to 100 in many different ways. **Compare and order numbers to 100 and know whether a number is even or odd.** Show, describe and compare quantities to 100, using objects, pictures and numbers. **Understand and apply strategies for addition facts up to and including $9 + 9$ and related subtraction facts.** Recall addition facts up to $5 + 5$ and related subtraction facts. **Add and subtract numbers to 100.** Talk about how they solve problems. **Connect numbers, shapes and time frames to everyday life.** Recognize and create repeating and increasing patterns. **Construct 2-D shapes and 3-D objects.** Use graphs to communicate information. **Measure using nonstandard tools such as a hand span.**



Grade 1

Count to 100 in different ways. **Show, describe and compare quantities to 20.** Recognize groups of 1–10 objects at a glance. **Understand and apply strategies for addition facts up to and including $9 + 9$ and related subtraction facts.** Recall addition facts to a sum of 5 and related subtraction facts. **Solve a problem and talk about how they did it and why.** Connect numbers to everyday life, such as while reading a story. **Recognize and create repeating patterns.** Sort objects, using one characteristic, and explain the sorting rule. **Compare, sort and reproduce 2-D shapes and 3-D objects.** Use measurements to order and compare objects.

Grade 3

Describe quantities to 1,000. **Understand, apply and recall addition facts up to $9 + 9$ and related subtraction facts.** Understand and recall multiplication facts to 5×5 and related division facts. **Understand fractions as a part of a whole.** Compare fractions with the same denominators. **Understand and determine perimeter for regular and irregular shapes.** Solve one-step addition and subtraction equations, using symbols. **Create increasing and decreasing patterns.** Measure time, mass and length. **Describe and sort shapes, using more than one characteristic.** Collect information and construct bar graphs. **Organize data, using charts, lists and graphs, in order to solve problems.**